

**WHAT IS CLAIMED IS**

1. A dilution and dispersion device for the exhaust and/or cooling gases of a vehicle's engine, that incorporates blades and a hub, **wherein** said hub of said device  
5 incorporates means intended to reduce the loss in the gaseous flow rate generated by said gases.

2. A dilution and dispersion device for exhaust and/or cooling gases of said engine according to Claim 1, wherein said flow rate loss reduction means are constituted by one or  
10 several openings in said hub.

3. A dilution and dispersion device for exhaust and/or cooling gases of said engine according to Claim 2, wherein the number of said openings, their diameter and their arrangement are determined according to the permeability  
15 which said device is to be given.

4. A dilution and dispersion device for exhaust and/or cooling gases of said engine according to Claim 1, wherein said flow rate loss reduction means are constituted by a profiled element allowing said gases to be deflected towards  
20 said blades.

5. A dilution and dispersion device for exhaust and/or cooling gases of said engine according to Claim 4, wherein said blades are fastened to a ring.

6. A dilution and dispersion device for exhaust and/or  
25 cooling gases of said engine according to Claim 5, wherein said ring is free to rotate with respect to said hub.

7. A dilution and dispersion device for exhaust and/or cooling gases of said engine according to Claim 5, wherein said ring is integral with said hub.